

product type designation



**RF185C communication module**

RFID communication module RF185C for PROFINET, Ethernet, EtherNet/IP, OPC/UA, 1 reader can be connected

Technical Product Detail Page

<https://i.siemens.com/1P6GT2002-0JE10>

suitability for operation

IE / PN network together with RF200/300/1000 MV300/400/500

### transfer rate

transfer rate / for Industrial Ethernet

100 ... 100 Mbit/s

transfer rate / at the point-to-point connection / serial / maximum

921.6 kbit/s

### interfaces

design of the interface / for point-to-point connection

RS422/RS232

number of readers / connectable

1

type of electrical connection

- of Industrial Ethernet interface
- for supply voltage

M12, d-coded  
M12, L-coded

design of the interface / to the reader / for communication

M12, 8-pin

number of digital inputs

0

number of digital outputs

0

### mechanical data

material

Thermoplastic (Valox 467, fiberglass reinforced)

color

Al-grey 2001

tightening torque / of the screw for securing the equipment / maximum

3 N·m

### supply voltage, current consumption, power loss

supply voltage / at DC

- rated value
- 

24 V  
20.4 ... 28.8 V

consumed current

- at DC / at 24 V / without connected devices / typical
- from supply voltage 1L+ / maximum

0.13 A  
4 A

continuous current / for loop-through to further bus nodes / at DC / maximum

12 A

### ambient conditions

ambient temperature

- during operation
- during storage
- during transport

-25 ... +55 °C  
-40 ... +70 °C  
-40 ... +70 °C

protection class IP

IP67

shock resistance

according to IEC 60068-2-27 and IEC 60068-2-6

shock acceleration

300 m/s<sup>2</sup>

vibrational acceleration

40 m/s<sup>2</sup>

### design, dimensions and weights

width	60 mm
height	45 mm
depth	165 mm
net weight	0.26 kg
fastening method	2 M4 screws
wire length / for RS 422 interface / maximum	1000 m
<b>product features, product functions, product components / general</b>	
display version	2 LEDs per reader connection, 3 LEDs for device status, 2 LEDs for Ethernet ports
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
product function / addressable transponder file handler	No
protocol / is supported	
• LLDP	Yes
• PROFINET IO protocol	Yes
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	Yes
• DCP	Yes
• EtherNet/IP protocol	Yes
• OPC UA	Yes
product feature / silicon-free	Yes
<b>product functions / management, configuration, engineering</b>	
type of parameterization	HSP, GSDML, EDS, TO, WBM
type of programming	ID profile, library with functions, FB 45, OPC UA, XML
type of computer-switched communication	acyclic communication, communication via process image, TCP/IP
<b>standards, specifications, approvals</b>	
certificate of suitability	CE, FCC, cULus, PNO: Conformance Class B, Netload Class (SL1) III, OPC UA: Embedded UA Server Profile
certificate of suitability	
• IECEX	No
MTBF	70 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	101.43 kg
• during manufacturing	16 kg
• during operation	85.3 kg
• after end of life	0.13 kg
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or

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**Approvals / Certificates**

**General Product Approval**

[Declaration of Con-  
formity](#)



[China RoHS](#)

[Declaration of Con-  
formity](#)

General Product Ap-  
proval

Radio Equipment  
Type Approval Certi-  
ficate

Environment

Industrial Communication



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